



EXPLANATION

	Undivided Quaternary sediments
	North Park Formation
	Arikaree Formation
	Middle Park Formation
	Volcanics
	Upper Tertiary Rocks
	Lower Tertiary stocks and volcanoes
	Undivided Paleozoic-Mesozoic sediments
	Pikes Peak Granite
	Gabbroic rocks
	Silver Plume Granite
	Boulder Creek Granite
	Pegmatite
	Undivided metamorphic rocks
	Quartzite
	Hornblende gneiss

PALeozoic MESOZOIC  
CENOZOIC

Contact Fault Shear Zone Gravity contours Interval = 1 milligal Gravity station

Geologic base references

- Lowering, T. S., and Goddard, E. N., 1950, Geology and ore deposits of the Front Range, Colorado: U.S. Geol. Survey Prof. Paper 223, 319 p.
- Braddock, W. A., 1969, Geology of the Empire quadrangle, Grand, Gilpin, and Clear Creek Counties, Colorado: U.S. Geol. Survey Prof. Paper 616, 55 p.
- Thebaud, P. K., 1965, Preliminary geologic map of the Berthoud Pass quadrangle, Clear Creek and Grand Counties, Colorado: U.S. Geol. Survey Misc. Geol. Inv. Map I-443.
- Sims, P. K., 1964, Geology of the Central City quadrangle, Colorado: U.S. Geol. Survey Geol. Quad. Map GQ-267.
- Sheridan, D. H., Hawley, C. H., and Albee, A. L., 1967, Geology of the Ralston Buttes district, Jefferson County, Colorado: U.S. Geol. Survey Prof. Paper 520, 121 p.
- Wells, J. D., 1967, Geology of the Eldorado Springs quadrangle, Boulder and Jefferson Counties, Colorado: U.S. Geol. Survey Bull. 1221-B, 85 p.
- Harrison, J. E., and Wells, J. D., 1959, Geology and ore deposits of Chicago Creek area, Clear Creek County, Colorado: U.S. Geol. Survey Prof. Paper 319, 92 p.
- Hawley, C. H., and Moore, F. B., 1967, Geology and ore deposits of the Lawson-Dumont-Fall River district, Clear Creek County, Colorado: U.S. Geol. Survey Bull. 1231, 92 p.
- Izett, G. A., 1968, Geology of the Hot Sulphur Springs quadrangle, Grand County, Colorado: U.S. Geol. Survey Prof. Paper 586, 79 p.

Terrain corrections were computed on a digital computer to a radius of 166.7 kilometers by a method described by Plouff (1966).

The gravity values were referenced to airport base station W991 (Behrendt and Woolard, 1961) at Greeley, Colorado.

A density of 2.67 grams per cubic centimeter was assumed in reducing the data to the complete Bouguer anomaly.

References

- Behrendt, J. C., and Woolard, G. P., 1961, An evaluation of the gravity control network in North America: Geophysics, v. 26, no. 1, p. 63.
- Plouff, Donald, 1966, Digital terrain corrections based on geographic coordinates (abs.,): Geophysics, v. 31, no. 6, p. 1208.

SCALE 1:125 000  
2 0 2 4 6 8 10 MILES  
2 0 2 4 6 8 10 KILOMETERS

Gravity survey by George L. Brinkworth 1967-1969

# COMPLETE BOUGUER ANOMALY GRAVITY MAP AND GENERALIZED GEOLOGY OF AN AREA WEST OF DENVER, COLORADO

BY  
GEORGE L. BRINKWORTH

1970

U.S. GEOLOGICAL SURVEY  
Released to open files  
MAR 20 1970

This map is preliminary  
and has not been edited  
or reviewed for conformity  
to Geological Survey  
standards

